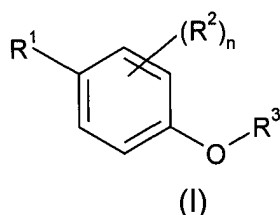


## Amendments to the Claims

This listing of claims will replace all prior versions and listings of the claims in the application:

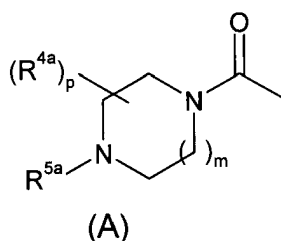
What is claimed is:

1. (Previously Amended) A compound of formula (I) or a pharmaceutically acceptable salt thereof:



wherein:

$R^1$  represents a group of formula (A):



wherein R<sup>4a</sup> represents C<sub>1-6</sub> alkyl, oxo, aryl, heteroaryl or heterocycllyl;

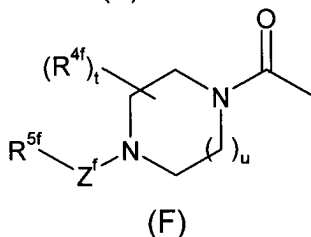
R<sup>5a</sup> represents hydrogen, -C<sub>1-6</sub> alkyl, -C<sub>1-6</sub> alkylC<sub>1-6</sub> alkoxy, -C<sub>1-6</sub> alkoxycarbonyl, -C<sub>3-8</sub> cycloalkyl, -aryl, -heterocyclyl, heteroaryl, -C<sub>1-6</sub> alkyl-aryl, -CH(aryl)(aryl), -C<sub>1-6</sub> alkyl-C<sub>3-8</sub> cycloalkyl, -C<sub>1-6</sub> alkyl-heteroaryl or -C<sub>1-6</sub> alkyl-heterocyclyl,

wherein R<sup>5a</sup> may be optionally substituted by one or more substituents which may be the same or different, and which are selected from the group consisting of halogen, hydroxy, cyano, nitro, oxo, haloC<sub>1-6</sub> alkyl, polyhaloC<sub>1-6</sub> alkyl, haloC<sub>1-6</sub> alkoxy, polyhaloC<sub>1-6</sub> alkoxy, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> alkoxy, C<sub>1-6</sub> alkylthio, C<sub>1-6</sub> alkoxyC<sub>1-6</sub> alkyl, C<sub>3-7</sub> cycloalkylC<sub>1-6</sub> alkoxy, C<sub>1-6</sub> alkanoyl, C<sub>1-6</sub> alkoxycarbonyl, C<sub>1-6</sub> alkylsulfonyl, C<sub>1-6</sub> alkylsulfinyl, C<sub>1-6</sub> alkylsulfonyloxy, C<sub>1-6</sub> alkylsulfonylC<sub>1-6</sub> alkyl, C<sub>1-6</sub> alkylsulfonamidoC<sub>1-6</sub> alkyl, C<sub>1-6</sub> alkylamidoC<sub>1-6</sub> alkyl or a group NR<sup>15a</sup>R<sup>16a</sup>, -CONR<sup>15a</sup>R<sup>16a</sup>, -NR<sup>15a</sup>COR<sup>16a</sup>, -NR<sup>15a</sup>SO<sub>2</sub>R<sup>16a</sup> or -SO<sub>2</sub>NR<sup>15a</sup>R<sup>16a</sup>, wherein R<sup>15a</sup> and R<sup>16a</sup> independently represent hydrogen, C<sub>1-6</sub> alkyl, aryl or together with the nitrogen to which they are attached may form a nitrogen containing heterocyclyl group;

m is 1;

p is 0, 1, 2 or 3, or when p represents 2, said  $R^{4a}$  groups may instead form a bridging group consisting of one or two methylene groups;

or  $R^1$  represents a group of formula (F):



wherein t is 0, 1 or 2;

u is 1 or 2;

$R^{4f}$  represents  $C_{1-6}$  alkyl or when t represents 2, said  $R^{4f}$  groups may instead form a bridging group consisting of one or two methylene groups;

$R^{5f}$  represents  $-C_{1-6}$  alkyl,  $-C_{1-6}$  alkyl $C_{1-6}$  alkoxy,  $-C_{3-8}$  cycloalkyl, aryl, heterocyclyl, heteroaryl,  $-C_{1-6}$  alkyl-aryl,  $-C_{1-6}$  alkyl- $C_{3-8}$  cycloalkyl,  $-C_{1-6}$  alkyl-heteroaryl,  $-C_{1-6}$  alkyl-heterocyclyl, -aryl-aryl, -aryl-heteroaryl, -aryl-heterocyclyl, -heteroaryl-aryl, -heteroaryl-heteroaryl, -heteroaryl-heterocyclyl, -heterocyclyl-aryl, -heterocyclyl-heteroaryl or -heterocyclyl-heterocyclyl;

wherein  $R^{5f}$  may be optionally substituted by one or more substituents which may be the same or different, and which are selected from the group consisting of halogen, hydroxy, cyano, nitro, oxo, halo $C_{1-6}$  alkyl, polyhalo $C_{1-6}$  alkyl, halo $C_{1-6}$  alkoxy, polyhalo $C_{1-6}$  alkoxy,  $C_{1-6}$  alkyl,  $C_{1-6}$  alkoxy,  $C_{1-6}$  alkylthio,  $C_{1-6}$  alkoxy $C_{1-6}$  alkyl,  $C_{3-7}$  cycloalkyl $C_{1-6}$  alkoxy,  $C_{1-6}$  alkanoyl,  $C_{1-6}$  alkoxycarbonyl,  $C_{1-6}$  alkylsulfonyl,  $C_{1-6}$  alkylsulfinyl,  $C_{1-6}$  alkylsulfonyloxy,  $C_{1-6}$  alkylsulfonyl $C_{1-6}$  alkyl,  $C_{1-6}$  alkylsulfonamido $C_{1-6}$  alkyl,  $C_{1-6}$  alkylamido $C_{1-6}$  alkyl, arylsulfonyl, arylsulfonyloxy, aryloxy, arylsulfonamido, arylcarboxamido, aroyl, or a group  $NR^{15f}R^{16f}$ ,  $-CONR^{15f}R^{16f}$ ,  $-NR^{15f}COR^{16f}$ ,  $-NR^{15f}SO_2R^{16f}$  or  $-SO_2NR^{15f}R^{16f}$ , wherein  $R^{15f}$  and  $R^{16f}$  independently represent hydrogen or  $C_{1-6}$  alkyl or together form a heterocyclic ring;

$Z^f$  represents CO or  $SO_2$ ;

$R^2$  represents halogen,  $C_{1-6}$  alkyl,  $C_{1-6}$  alkoxy, cyano, amino or trifluoromethyl;

n is 0, 1 or 2;

$R^3$  represents  $-(CH_2)_q-NR^{11}R^{12}$

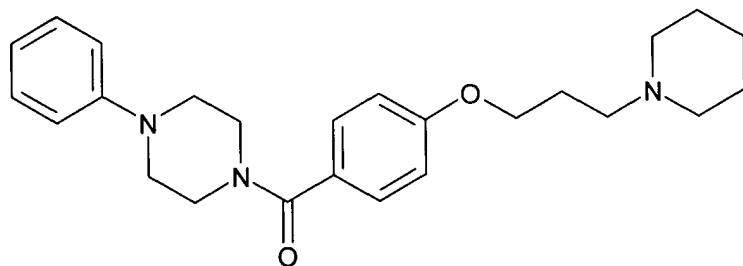
wherein q is 2, 3 or 4;

$R^{11}$  and  $R^{12}$  together with the nitrogen atom to which they are attached represent piperidine optionally substituted by one or two  $R^{17}$  groups;

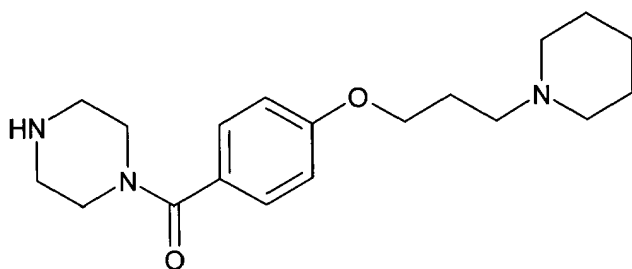
and  $R^{17}$  independently represents halogen,  $C_{1-6}$  alkyl, halo $C_{1-6}$  alkyl, OH, di $C_{1-6}$  alkylamino or  $C_{1-6}$  alkoxy.

2. (Currently Amended) A compound according to claim 1 which is a compound selected from the group consisting of

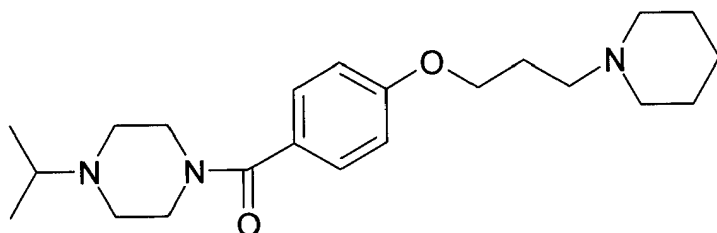
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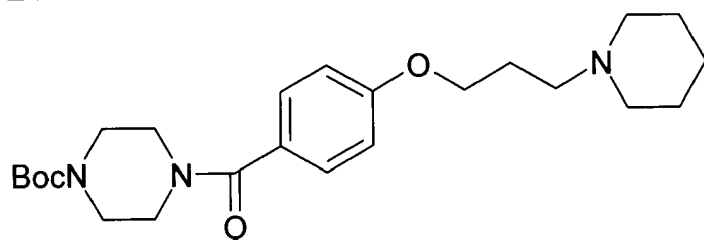
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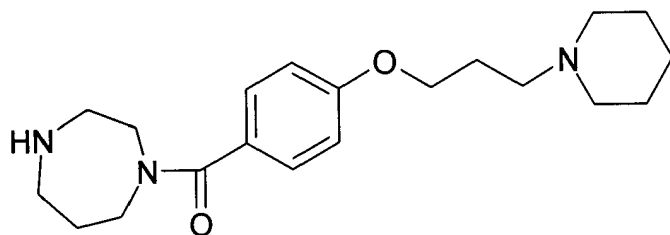
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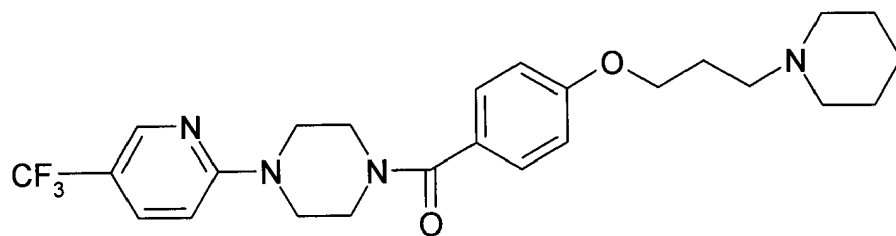
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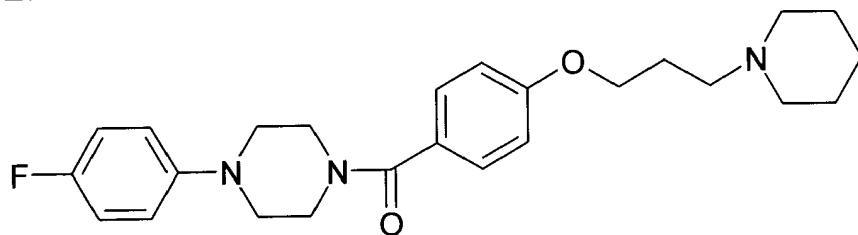
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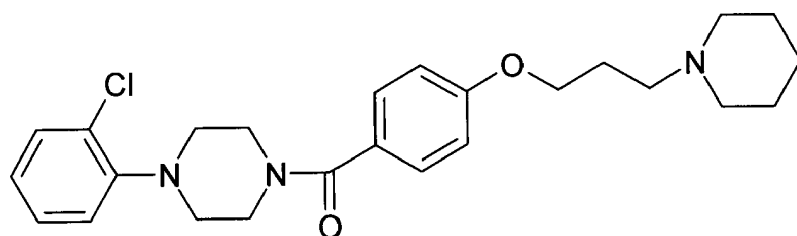
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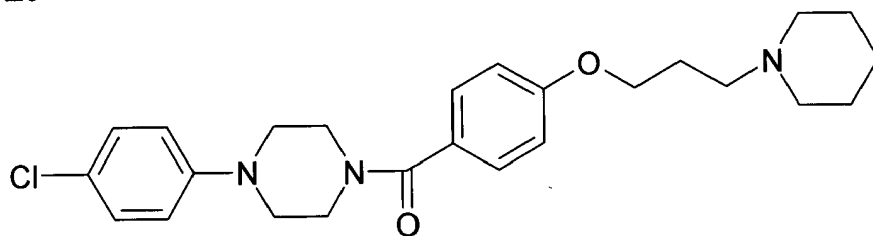
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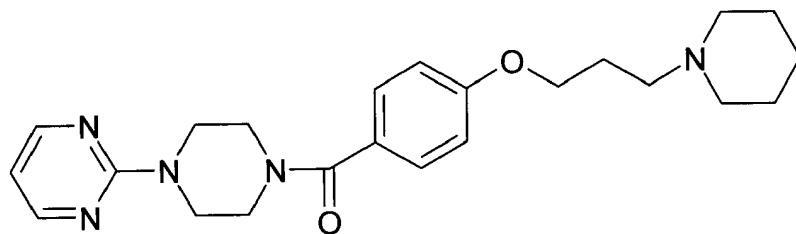
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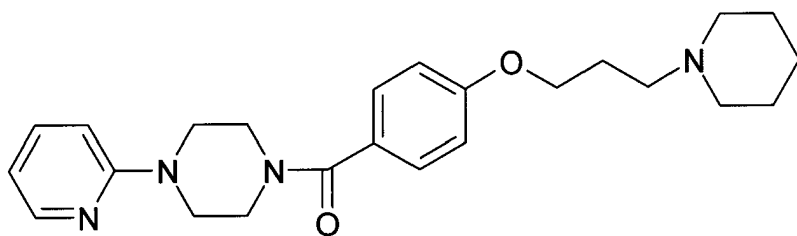
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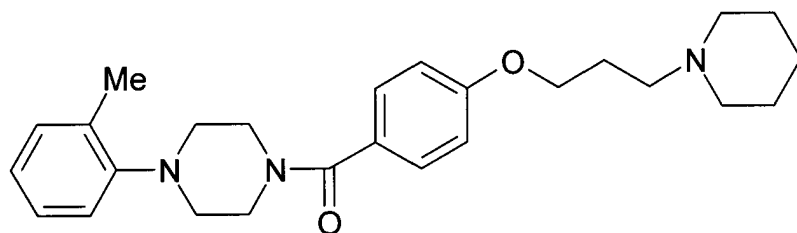
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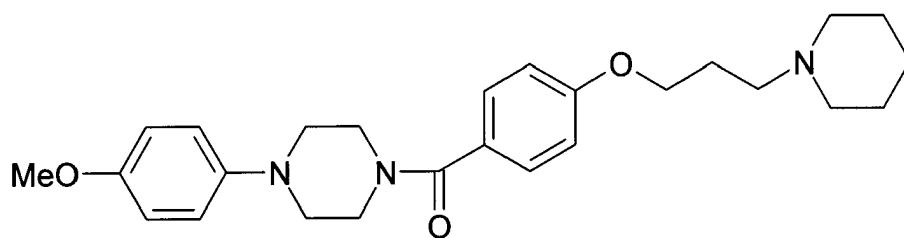
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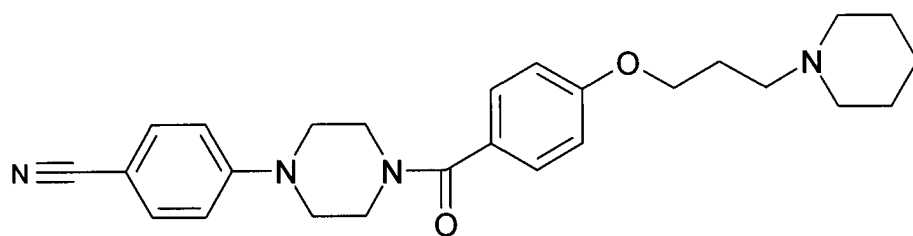
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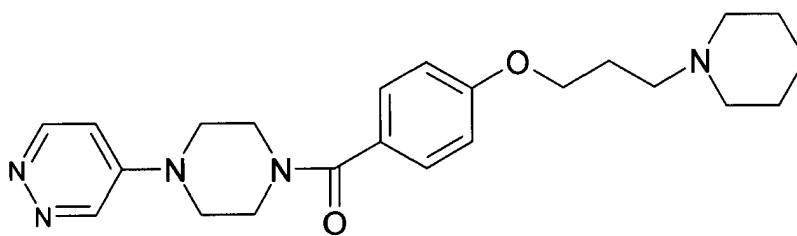
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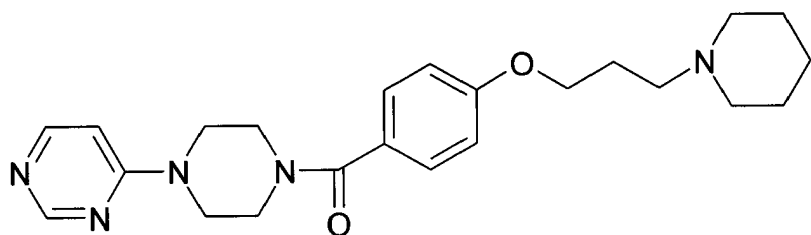
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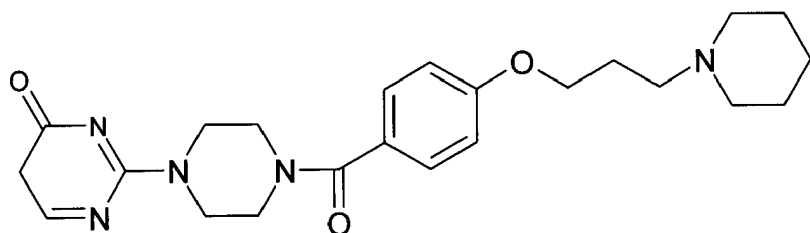
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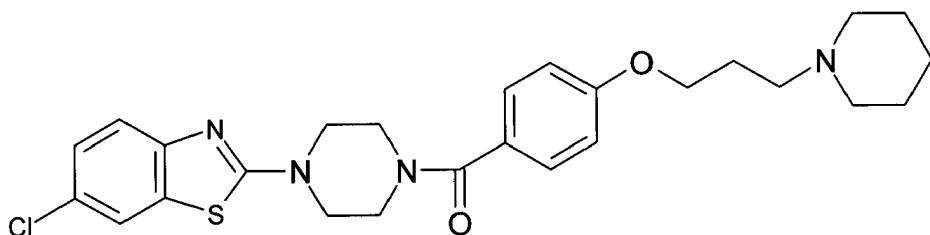
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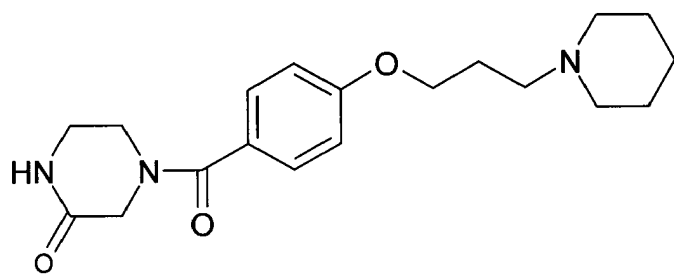
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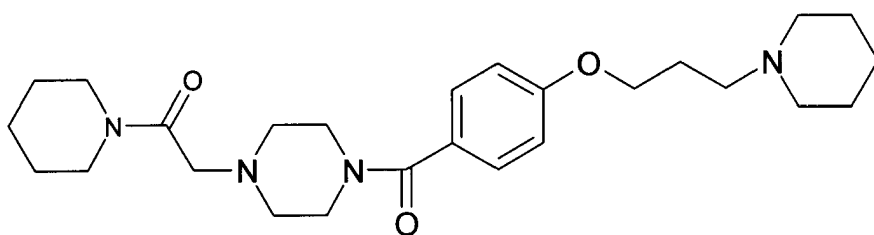
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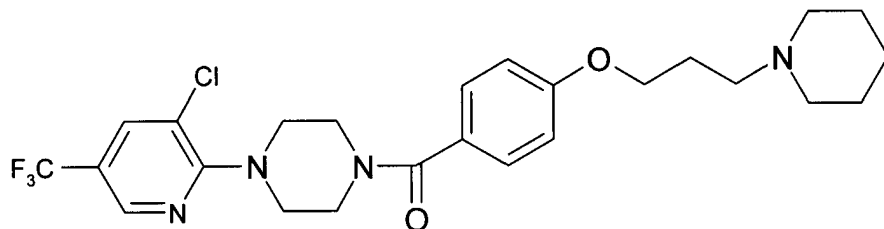
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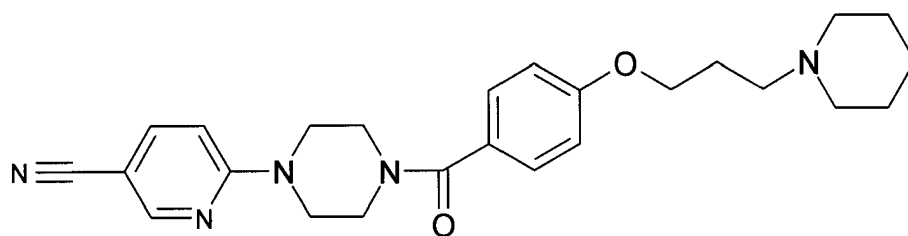
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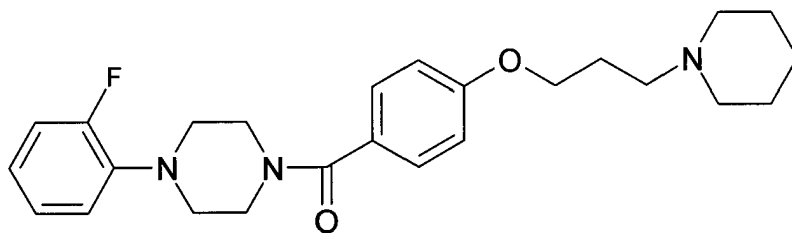
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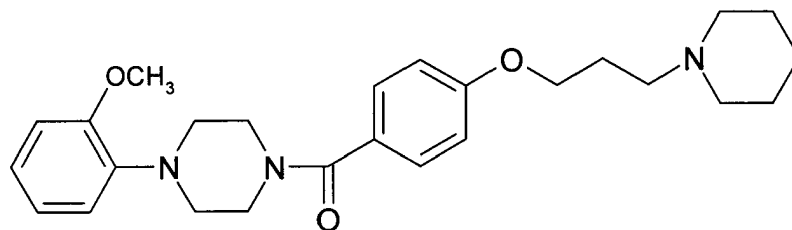
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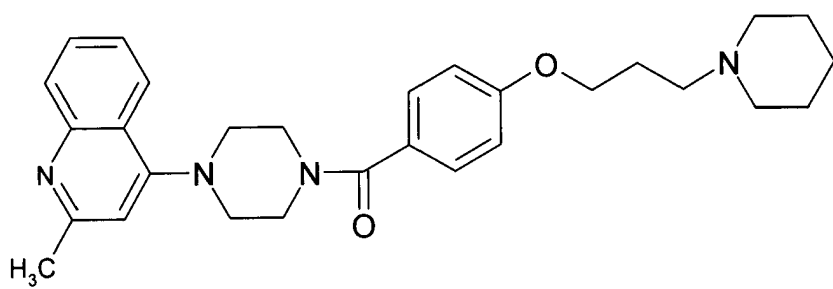


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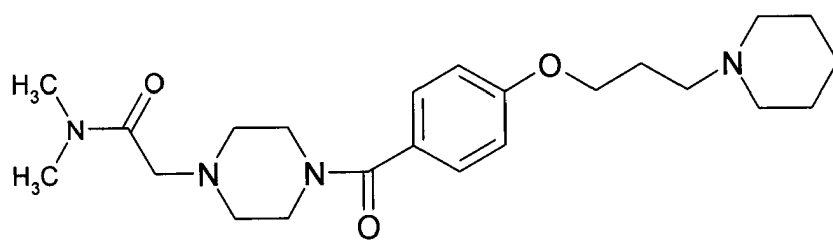




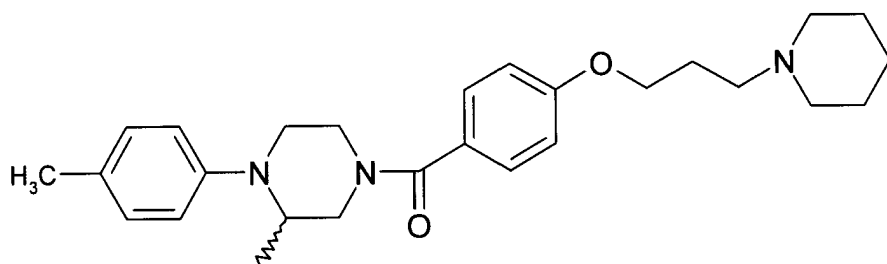
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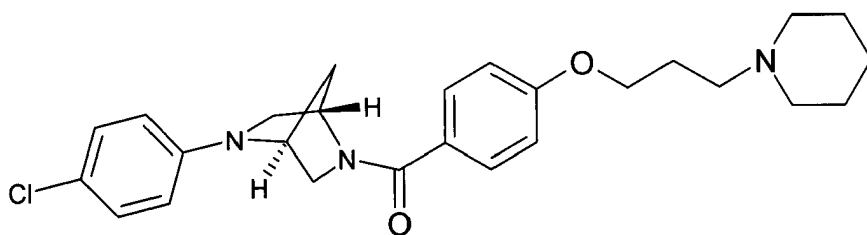
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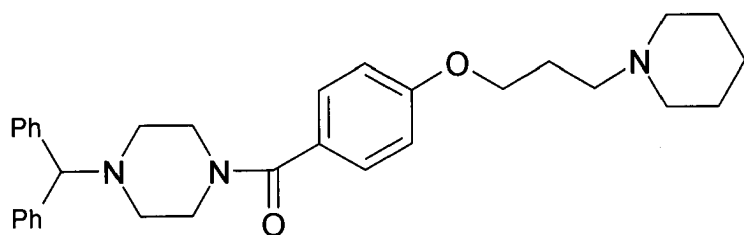
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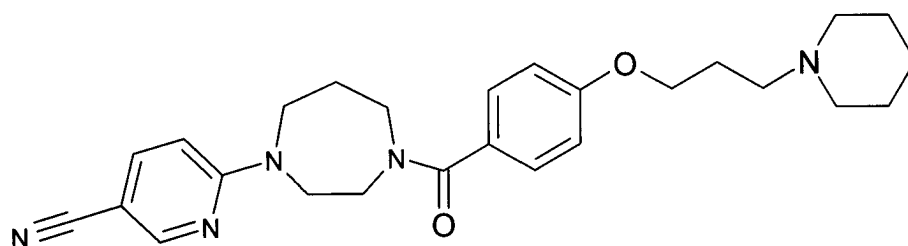
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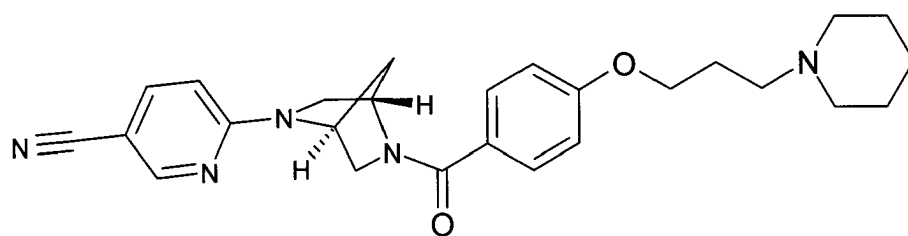
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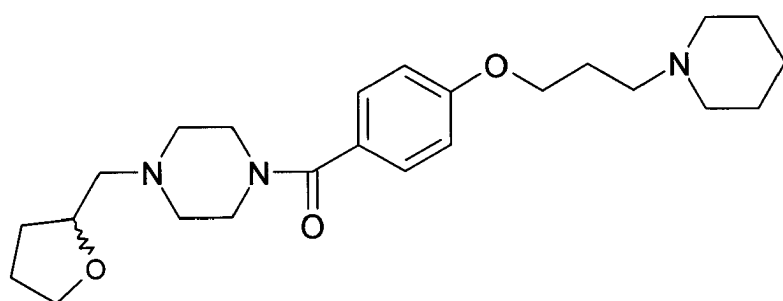
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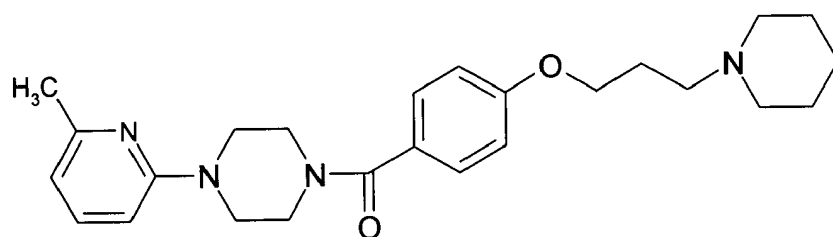
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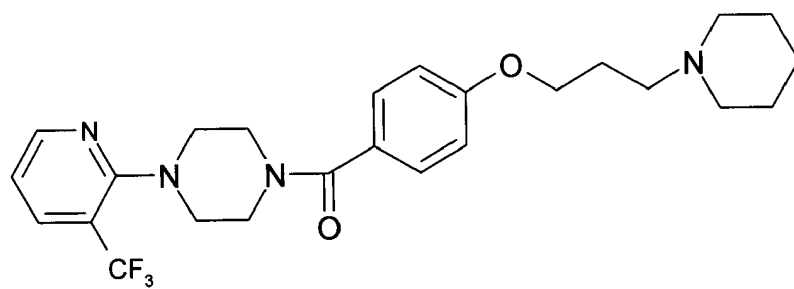
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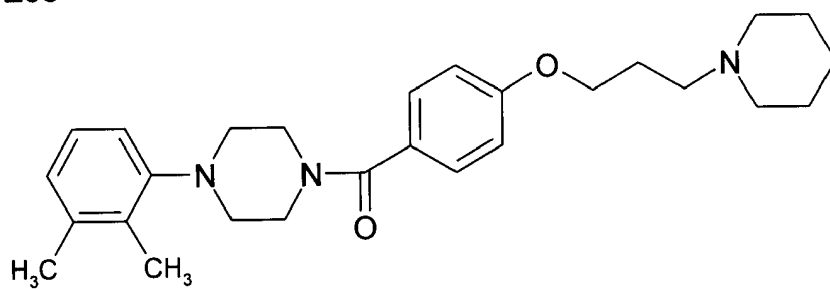
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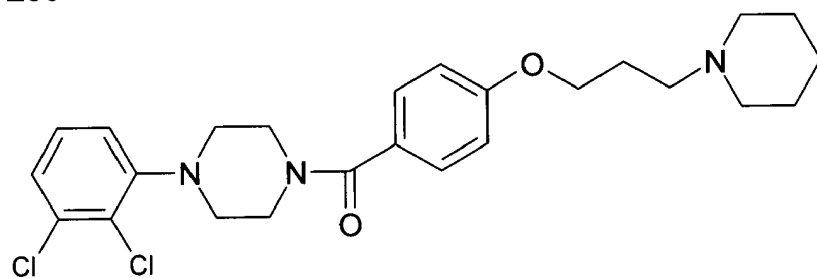
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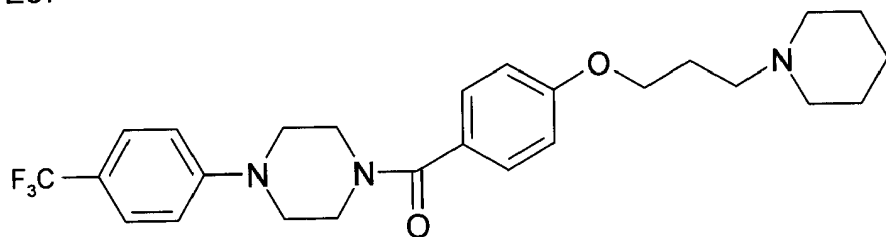
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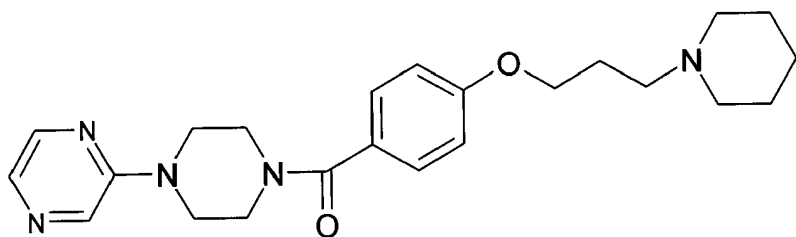
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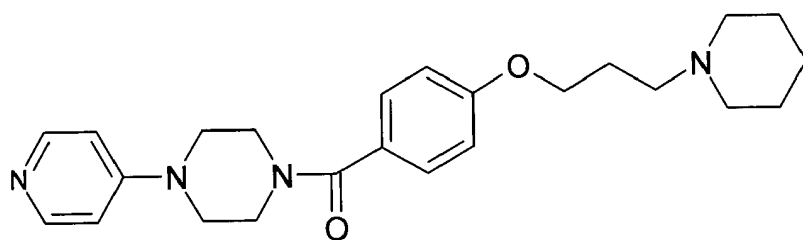
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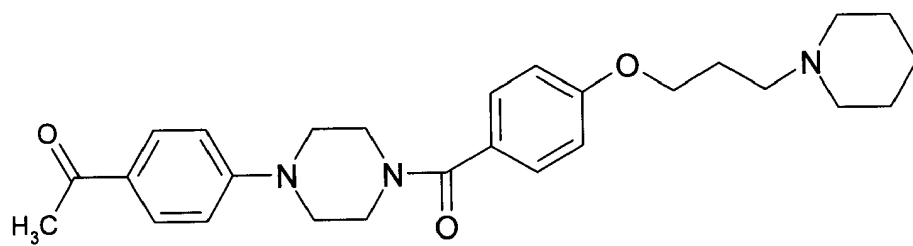
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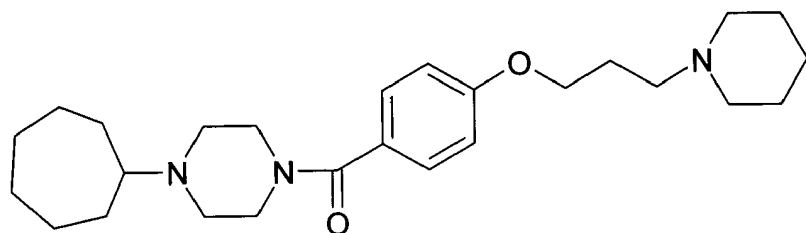
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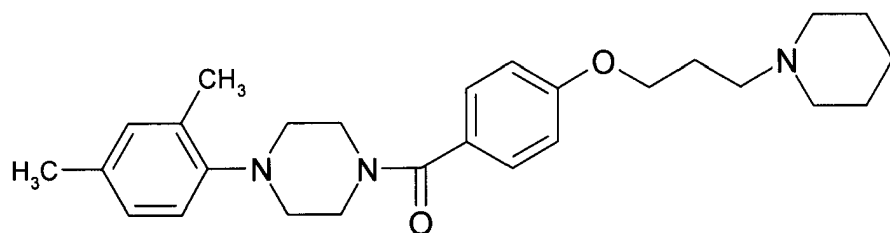
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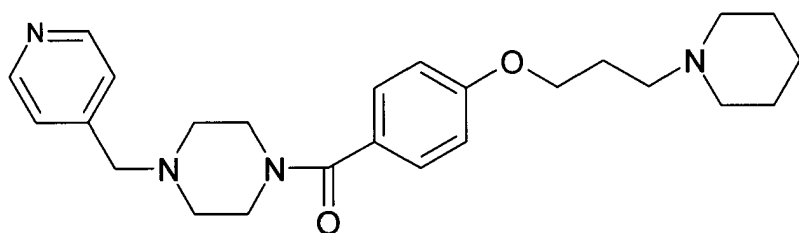
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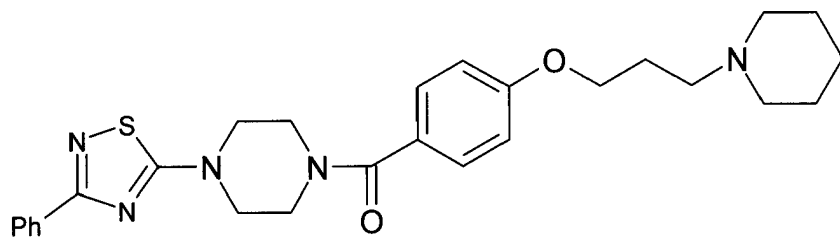
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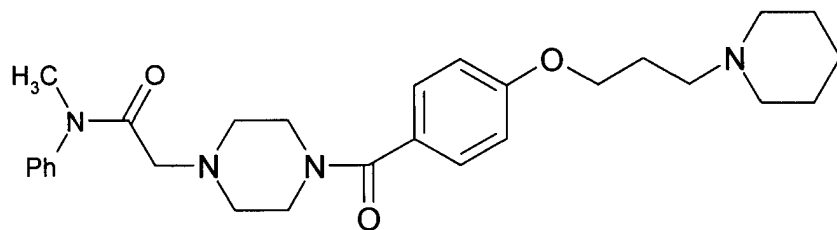
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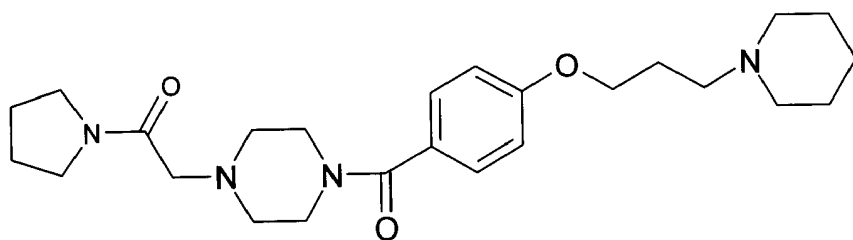
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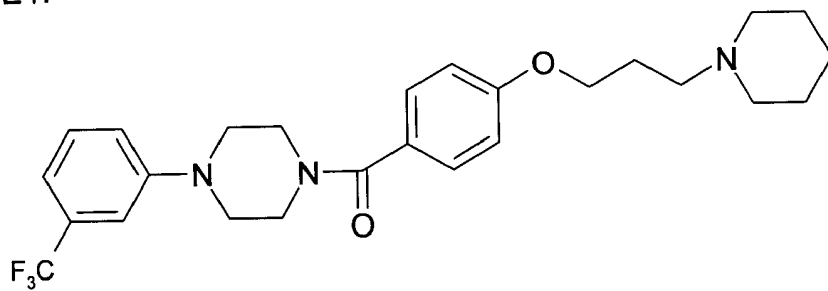
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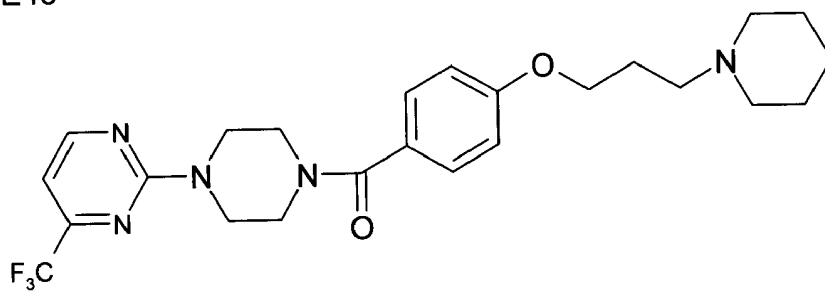
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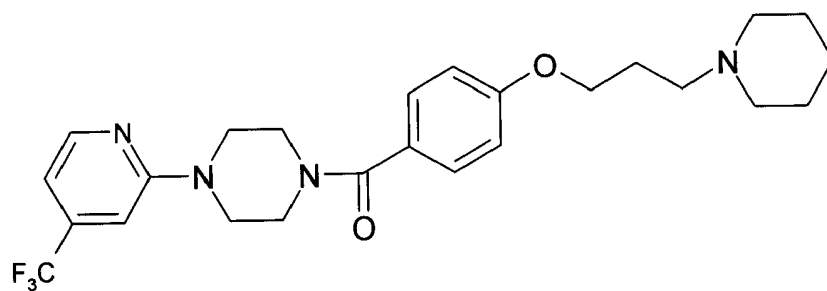
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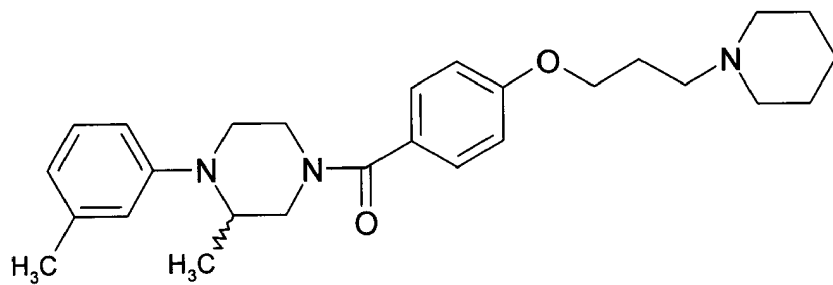
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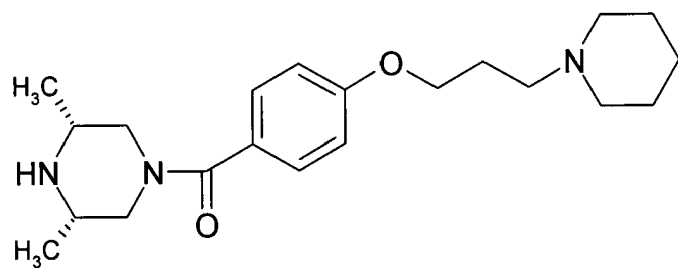
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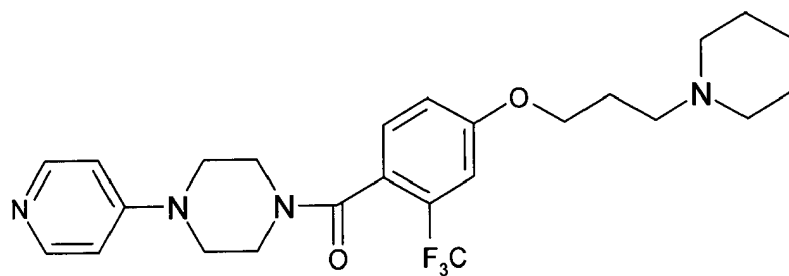
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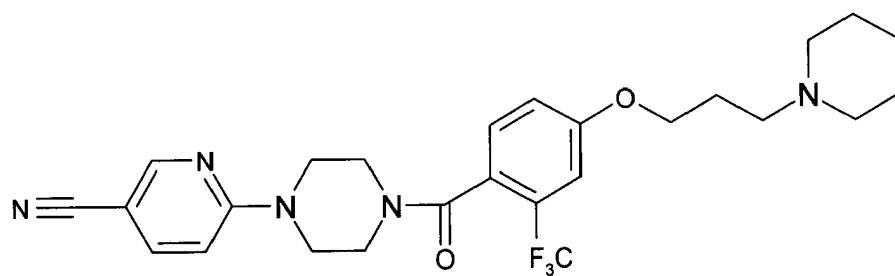
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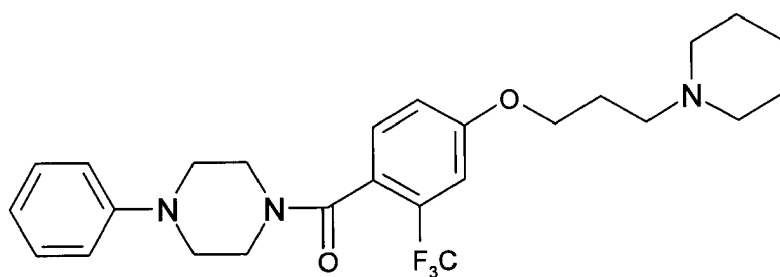
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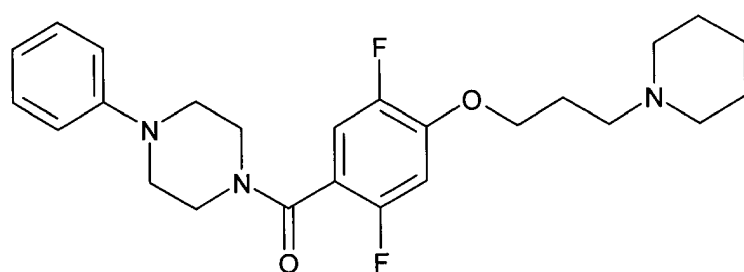
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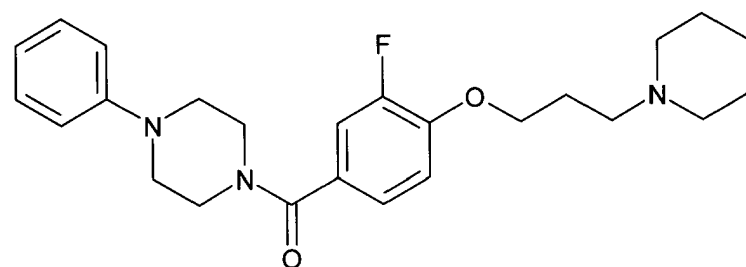
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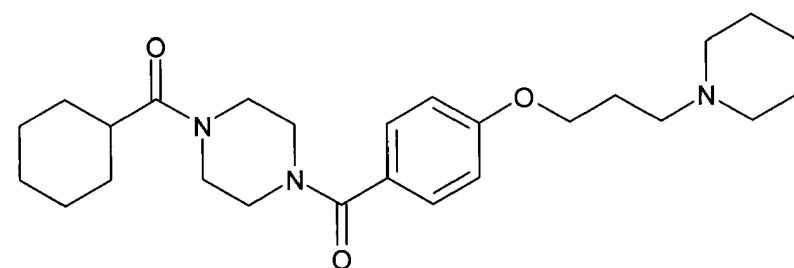
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E56

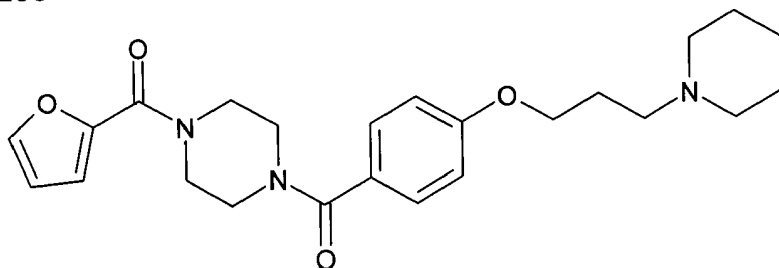


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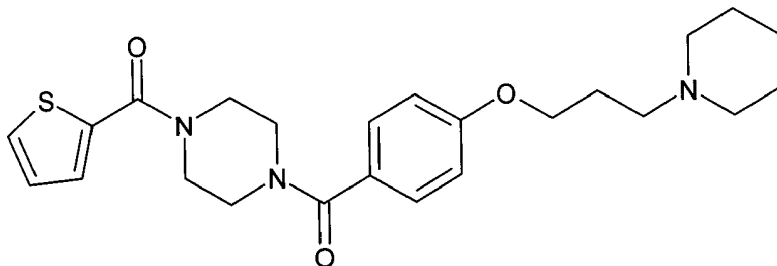




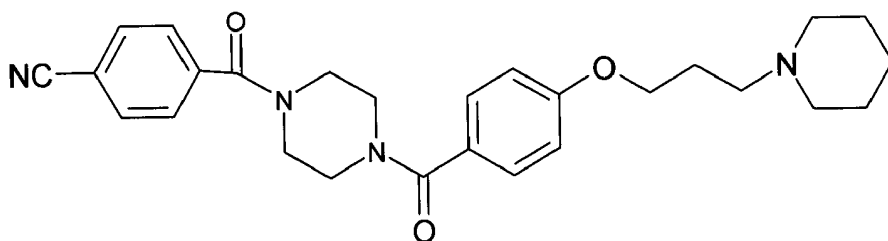
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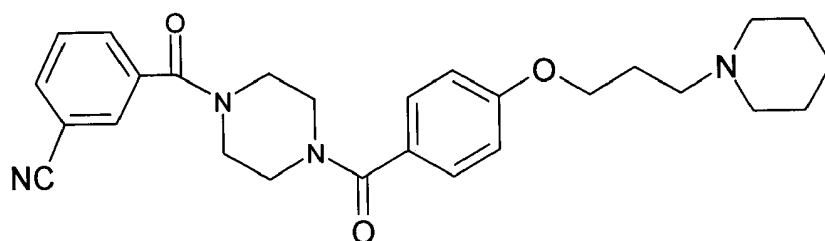
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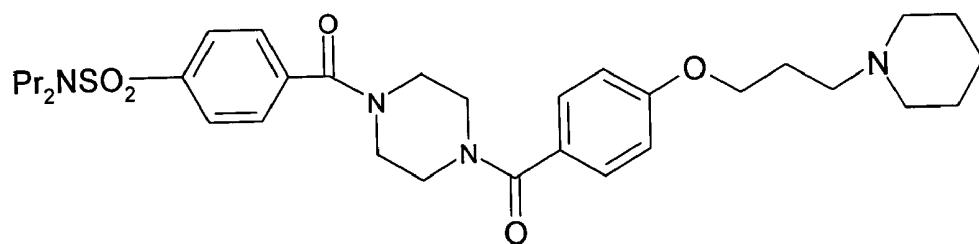
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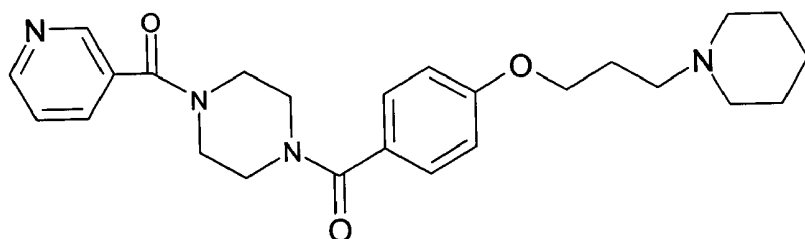
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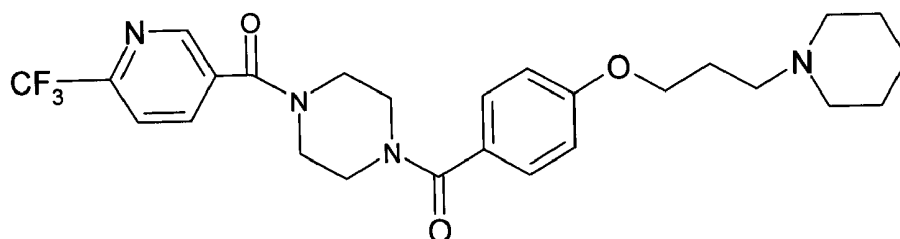
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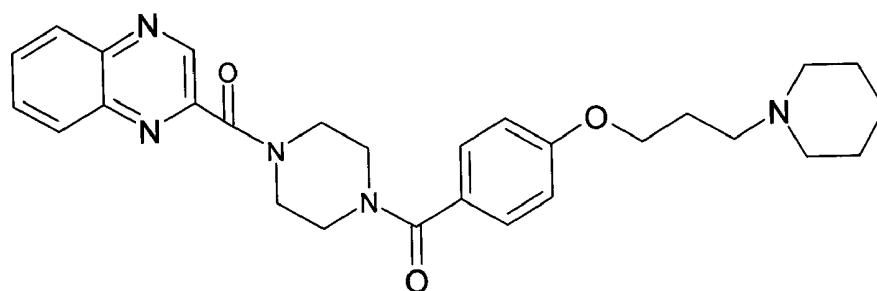
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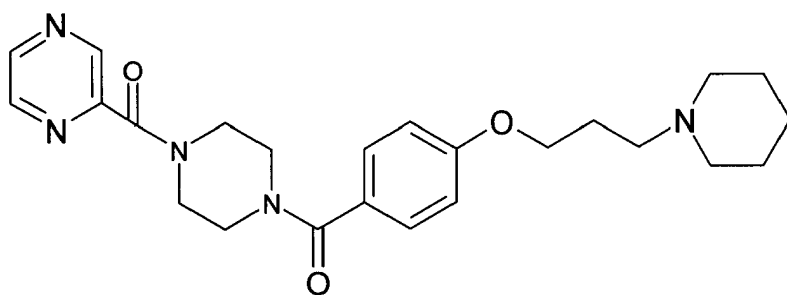
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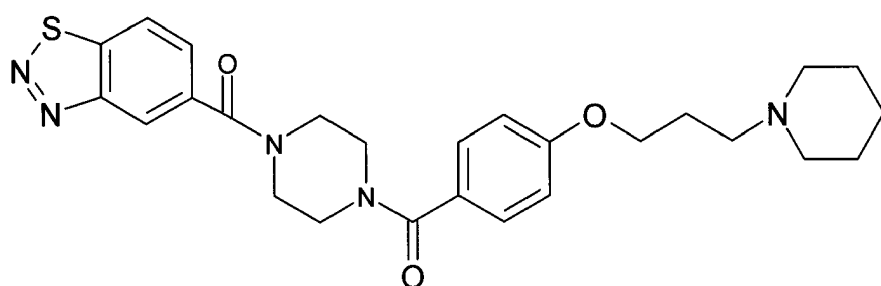
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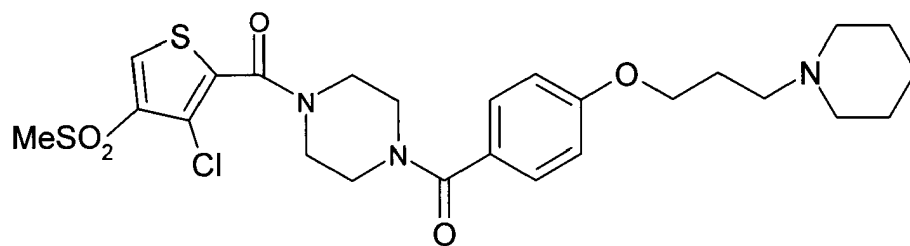
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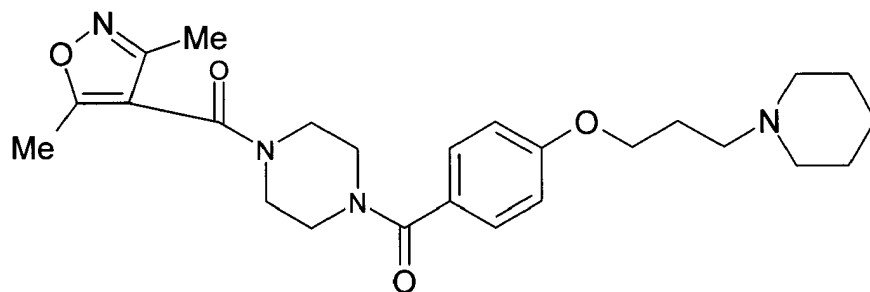
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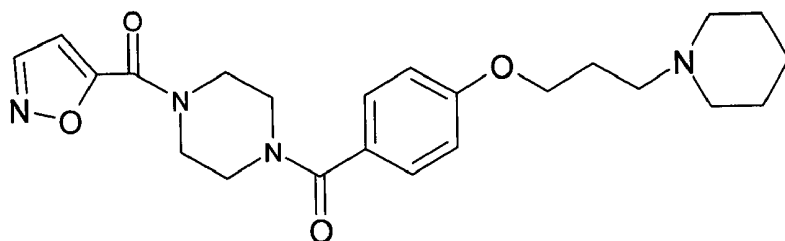
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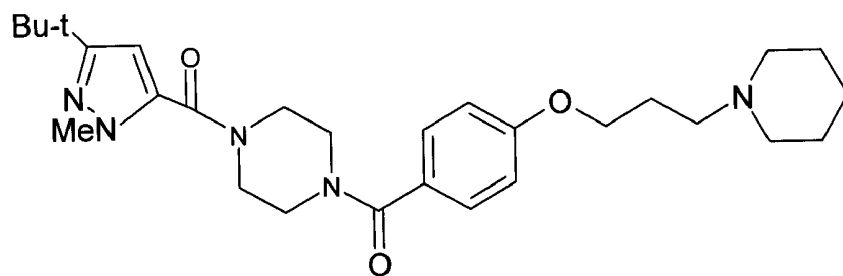
E69



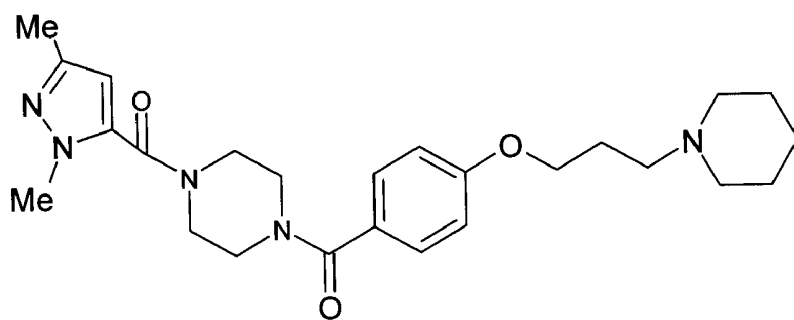
E70



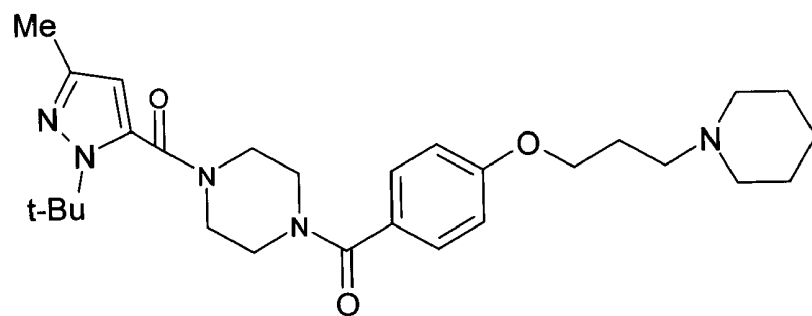
E71



E72

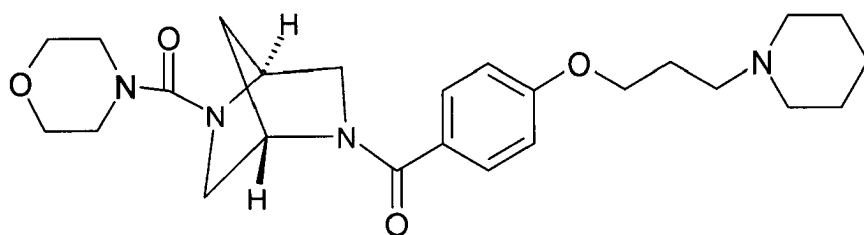


E73

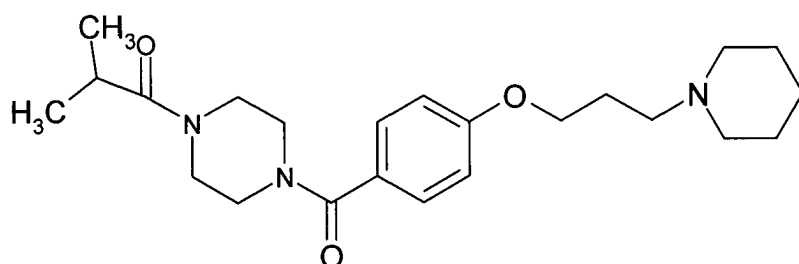




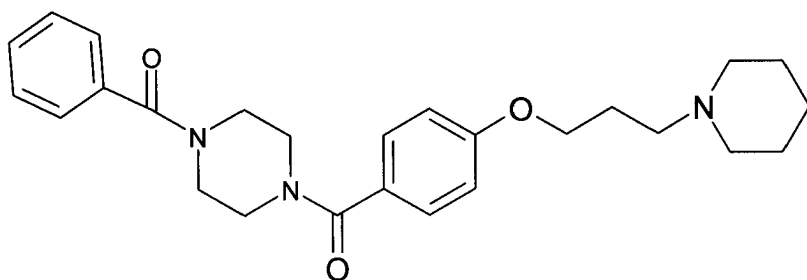
E81



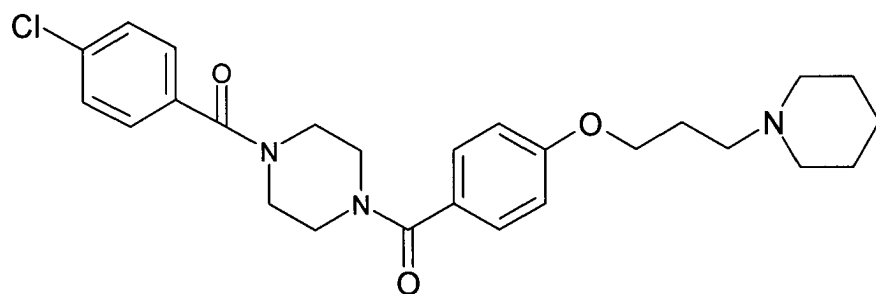
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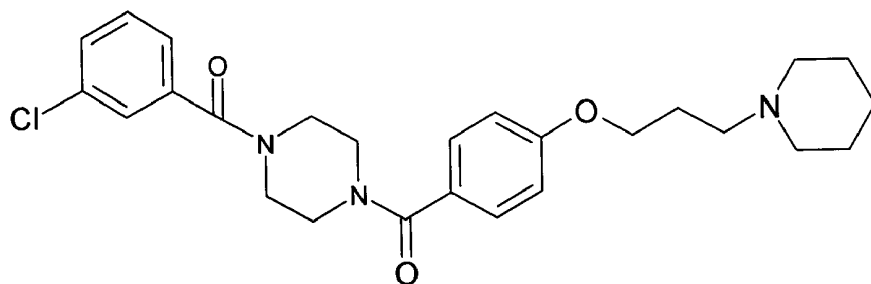
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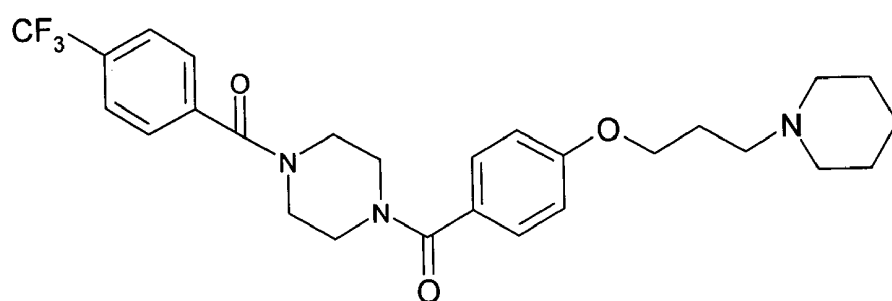
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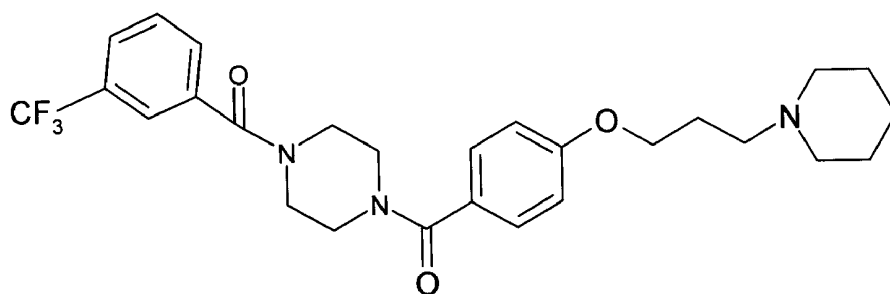
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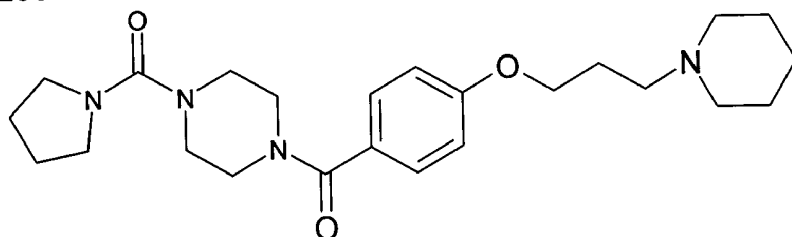
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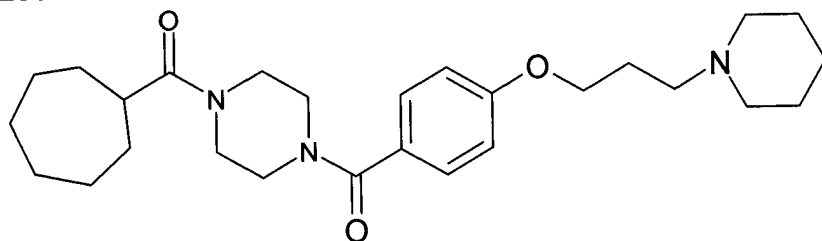
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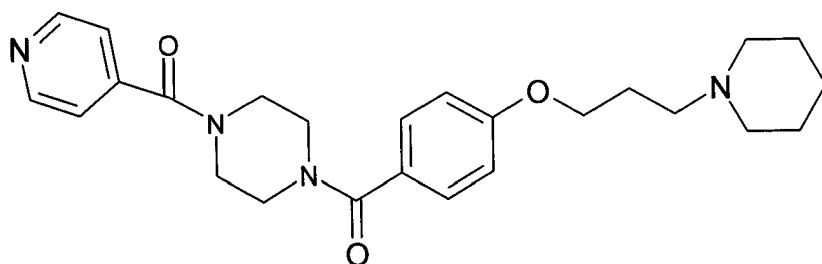
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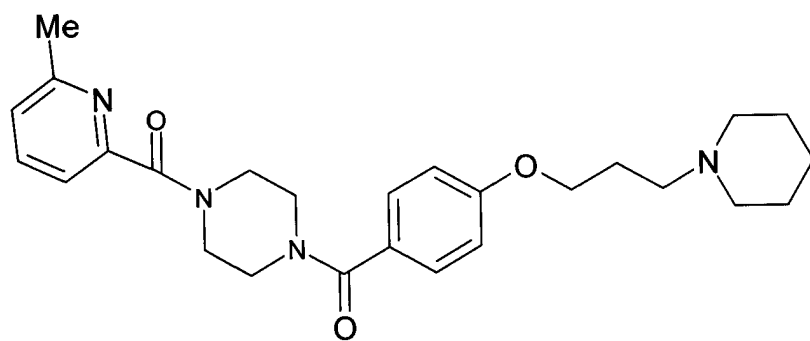
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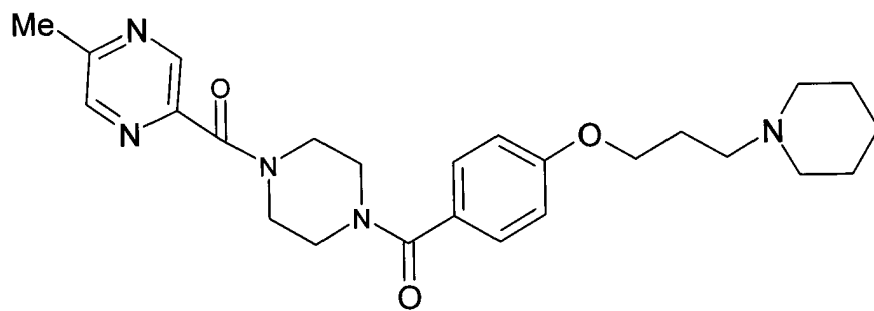
E90



E91

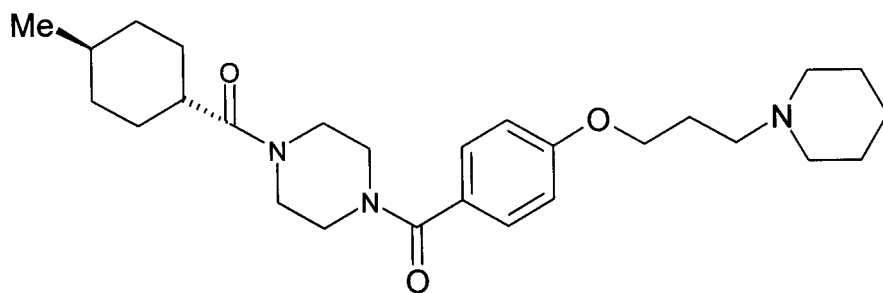


E92

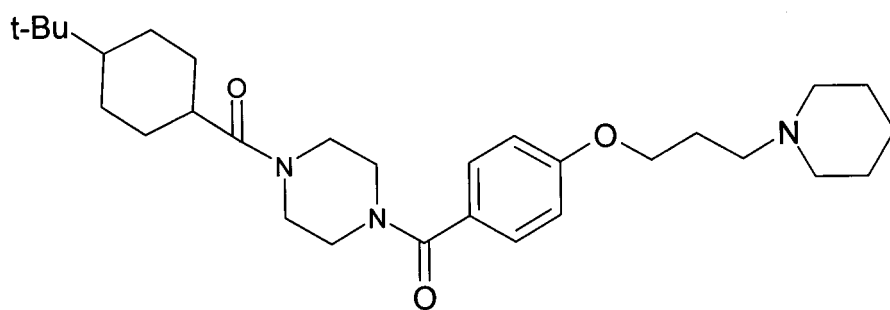




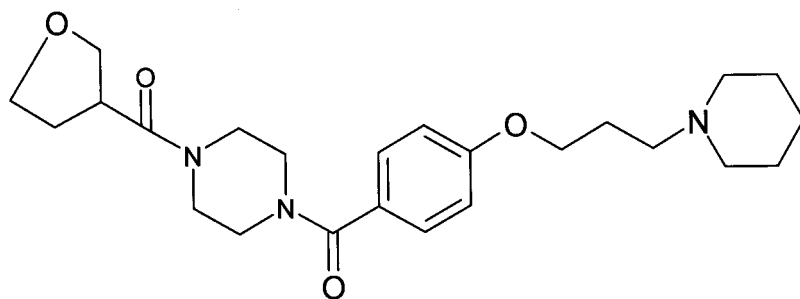
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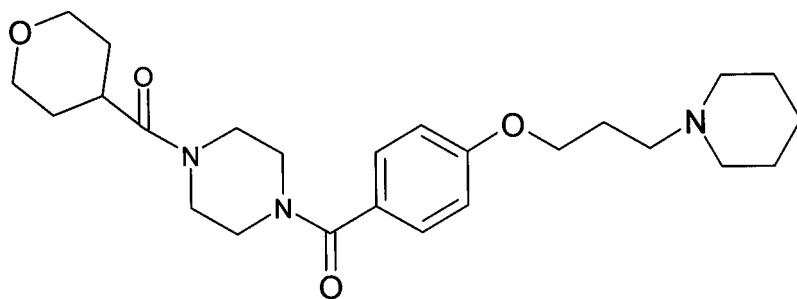
E94



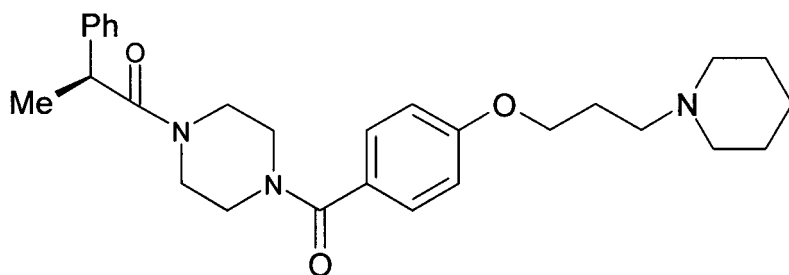
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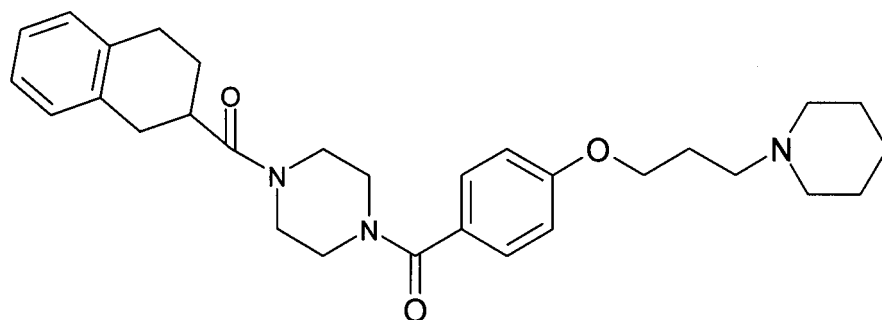
E96



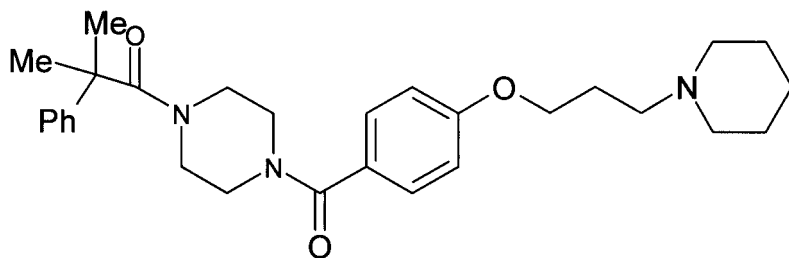
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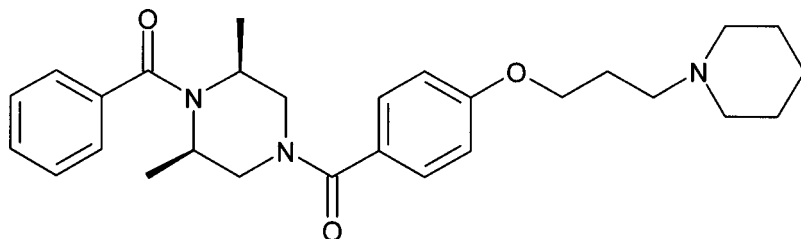
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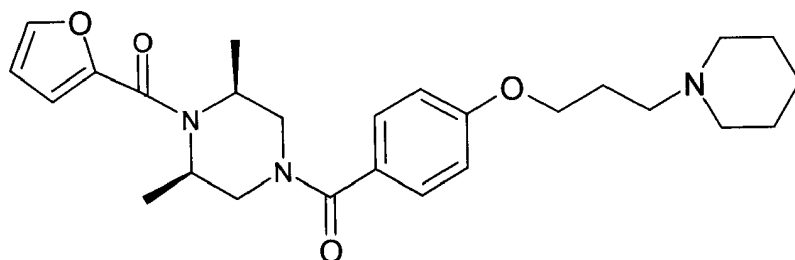
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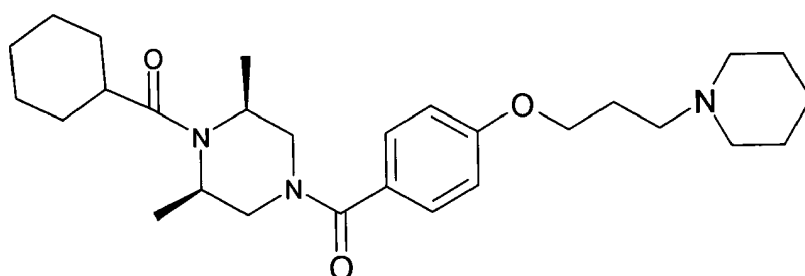
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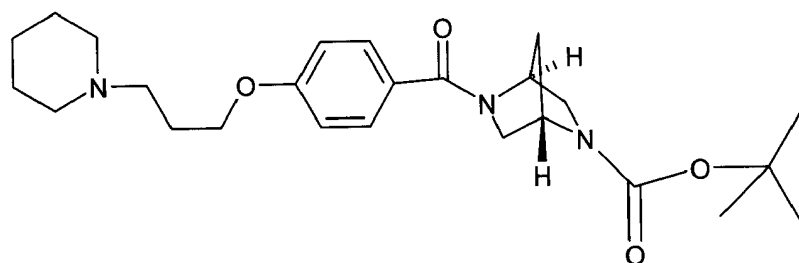
E101



E102



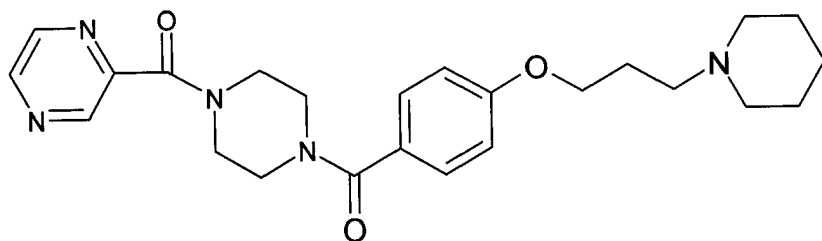
E103



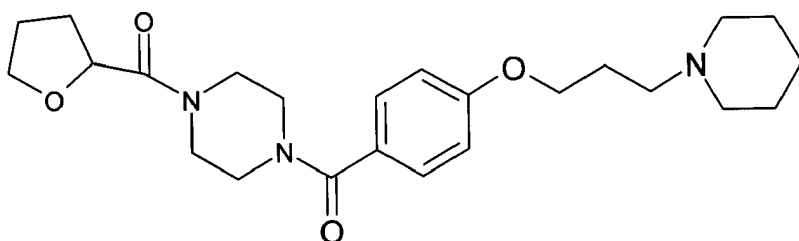
E104

(1S,4S)-2-[4-(3-Piperidin-1-ylpropoxy)benzoyl]-2,5-diaza-bicyclo[2.2.1]heptane dihydrochloride

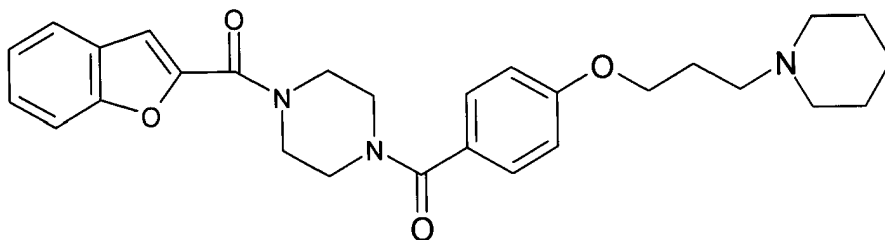
E105



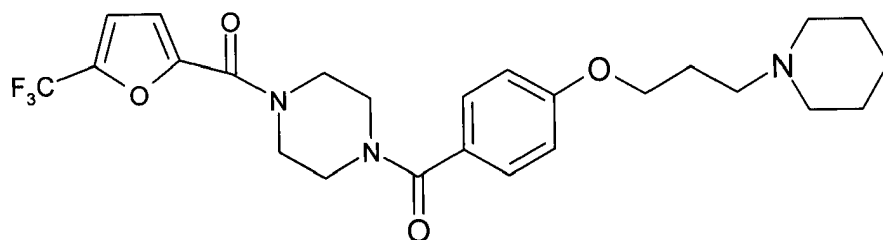
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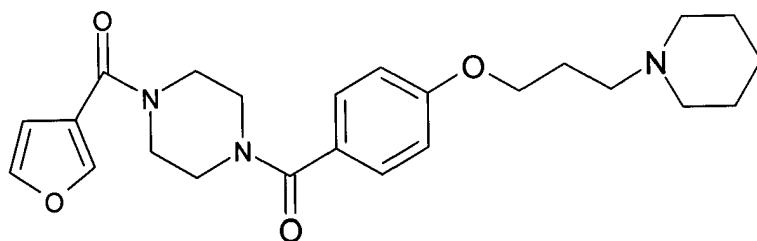
E107



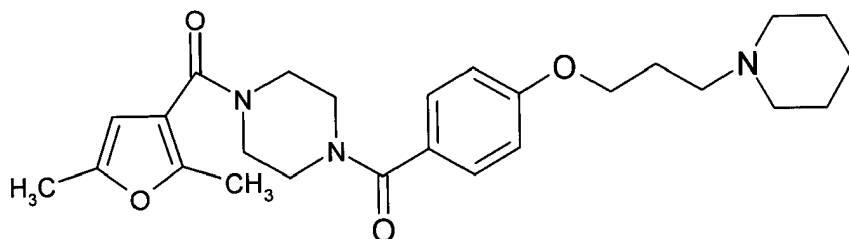
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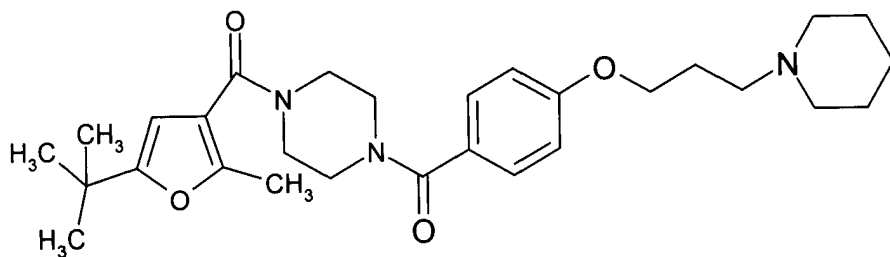
E109



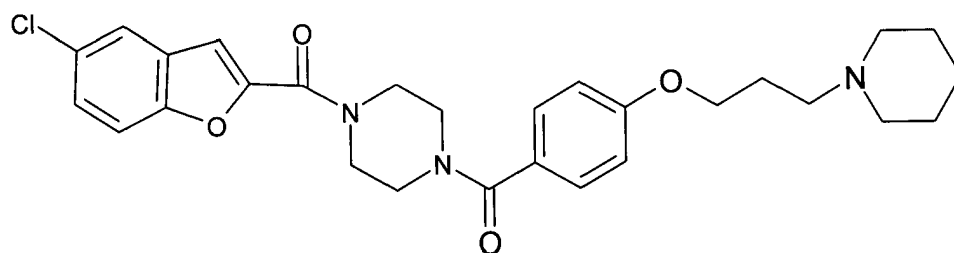
E110



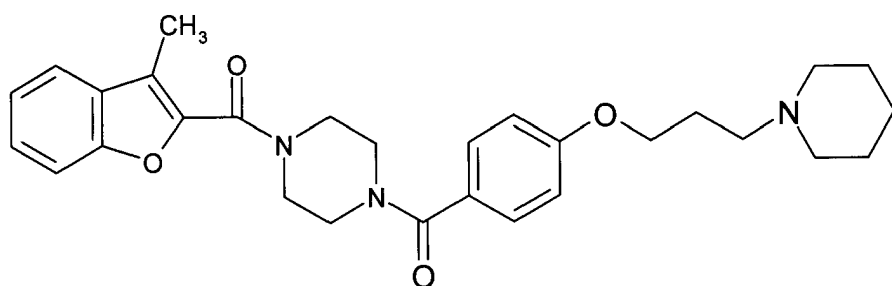
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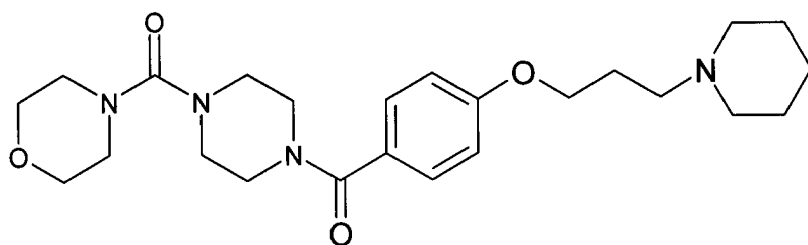
E112



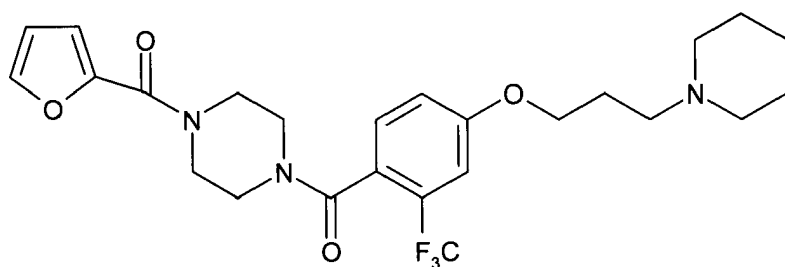
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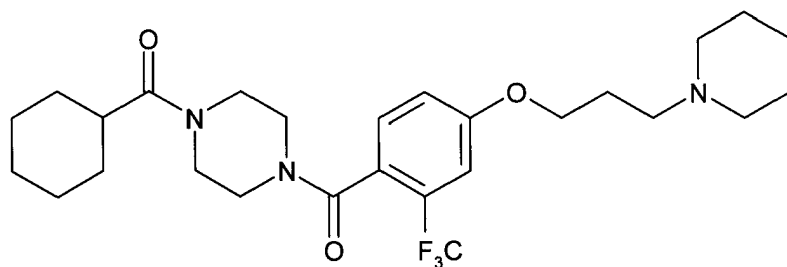
E114



E115

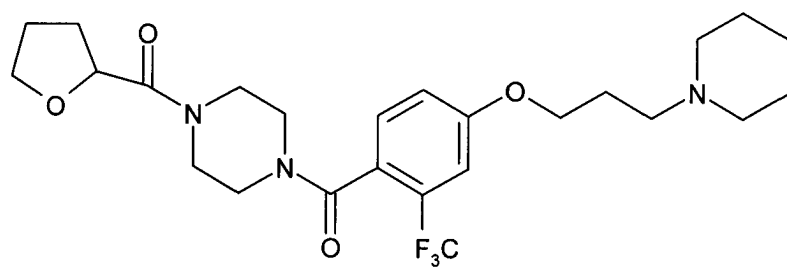


E116

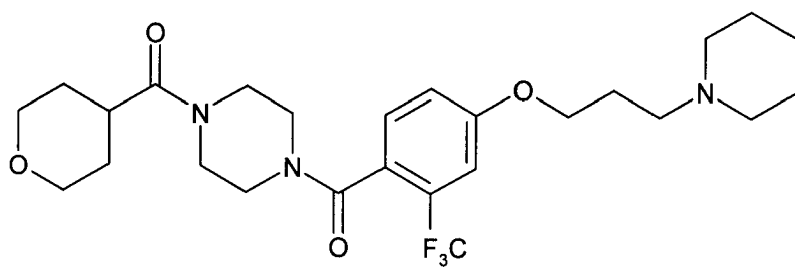




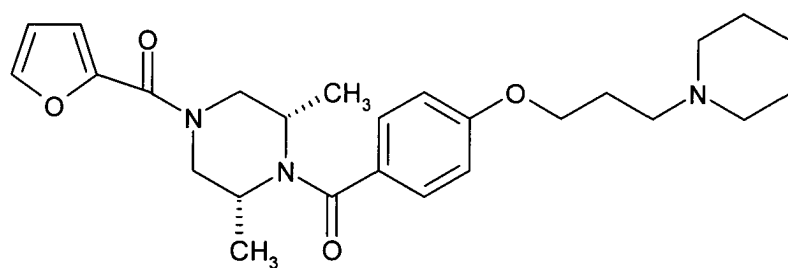
E121



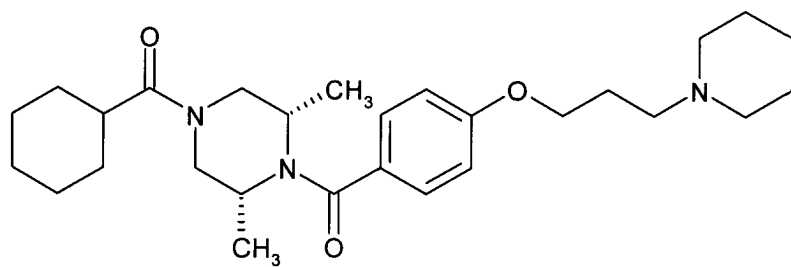
E122



E123



E124



or and a pharmaceutically acceptable salt thereof.



3. (Previously Amended) A pharmaceutical composition which comprises the compound of claim 1 or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier or excipient.

4.-6. (Cancelled)

7. (Currently Amended) A method of treatment of cognitive impairment which comprises administering to a host human in need thereof an effective amount of a compound of claim 1 or a pharmaceutically acceptable salt thereof.

8. (Cancelled).